

Claims:

What I claim are:

1. A semiconductor device, comprising
a substrate with texture on one of its two surfaces, and
an epitaxial layer comprising an active layer and grown on the top of
said texture.
2. The semiconductor device of claim 1, further comprising buffer layer
grown in between said epitaxial layer and said texture.
3. The semiconductor device of claim 1, wherein said texture comprising
wells and walls.
4. The semiconductor device of claim 3, wherein the width of said walls
is in a range of nanometers to micrometers.
5. The semiconductor device of claim 3, wherein the depth of said well
is in a range of nanometers to micrometers.
6. The semiconductor device of claim 3, wherein said wells have the
shape of said semiconductor device.
7. The semiconductor device of claim 6, wherein the dimension of said
wells is in the range of nanometers to micrometers.

8. The semiconductor device of claim 1, wherein said substrate emits light.
9. A semiconductor device, comprising
a substrate with first texture on one of its two surfaces,
a first epitaxial layer comprising first active layer and grown on the top of said first texture,
a second texture etched on the top surface of said first epitaxial layer,
a second epitaxial layer comprising second active layer and grown on the top of said second texture.
10. The semiconductor device of claim 9, further comprising first buffer layer grown in between said first epitaxial layer and said first texture of said substrate, and a second buffer layer grown in between said second epitaxial layer and said second texture of said first epitaxial layer.
11. The semiconductor device of claim 9, wherein both said first texture and said second texture comprising wells and walls.
12. The semiconductor device of claim 11, wherein the width of said walls is in a range of nanometers to micrometers.

13. The semiconductor device of claim 11, wherein the depth of said wells is in a range of nanometers to micrometers.
14. The semiconductor device of claim 11, wherein said wells have the shape of said semiconductor device.
15. The semiconductor device of claim 11, wherein the dimension of said wells is in the range of nanometers to micrometers.
16. The semiconductor device of claim 9, wherein said substrate emits light.
17. A semiconductor device, comprising
 - a transparent substrate with first texture on one of its two surfaces and second texture on other surface,
 - a first epitaxial layer comprising first active layer and grown on the top of said first texture,
 - a second epitaxial layer comprising second active layer and grown on the top of said second texture.
18. The semiconductor device of claim 17, further comprising first buffer layer grown in between said first epitaxial layer and said first texture

of said substrate, and a second buffer layer grown in between said second epitaxial layer and said second texture of said substrate.

19. The semiconductor device of claim 17, wherein both said first texture and said second texture comprising wells and walls.

20. The semiconductor device of claim 19, wherein the width of said walls is in a range of nanometers to micrometers.

21. The semiconductor device of claim 19, wherein the depth of said wells is in a range of nanometers to micrometers.

22. The semiconductor device of claim 19, wherein said wells have the shape of said semiconductor device.

23. The semiconductor device of claim 19, wherein the dimension of said wells is in the range of nanometers to micrometers.